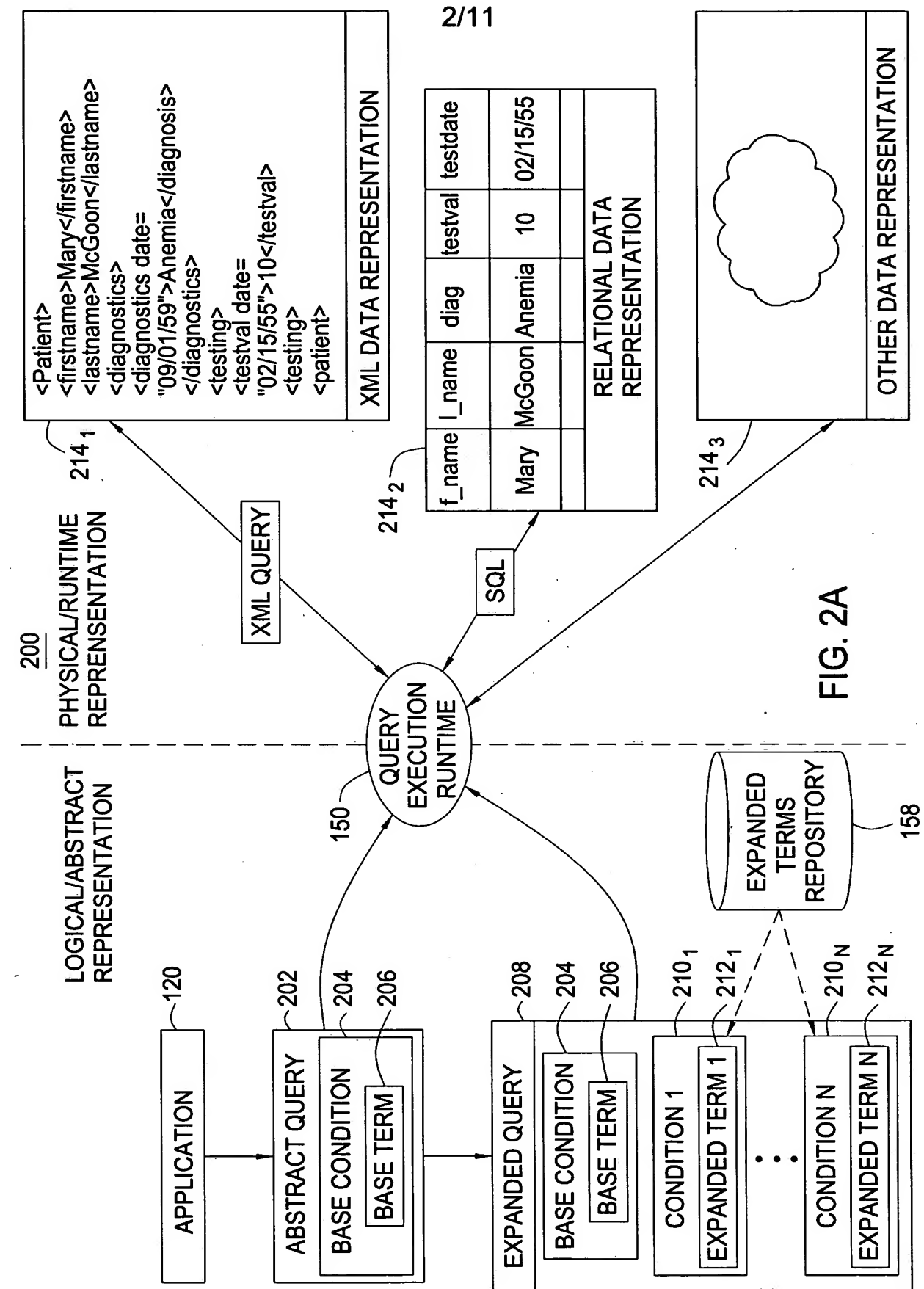


FIG. 1



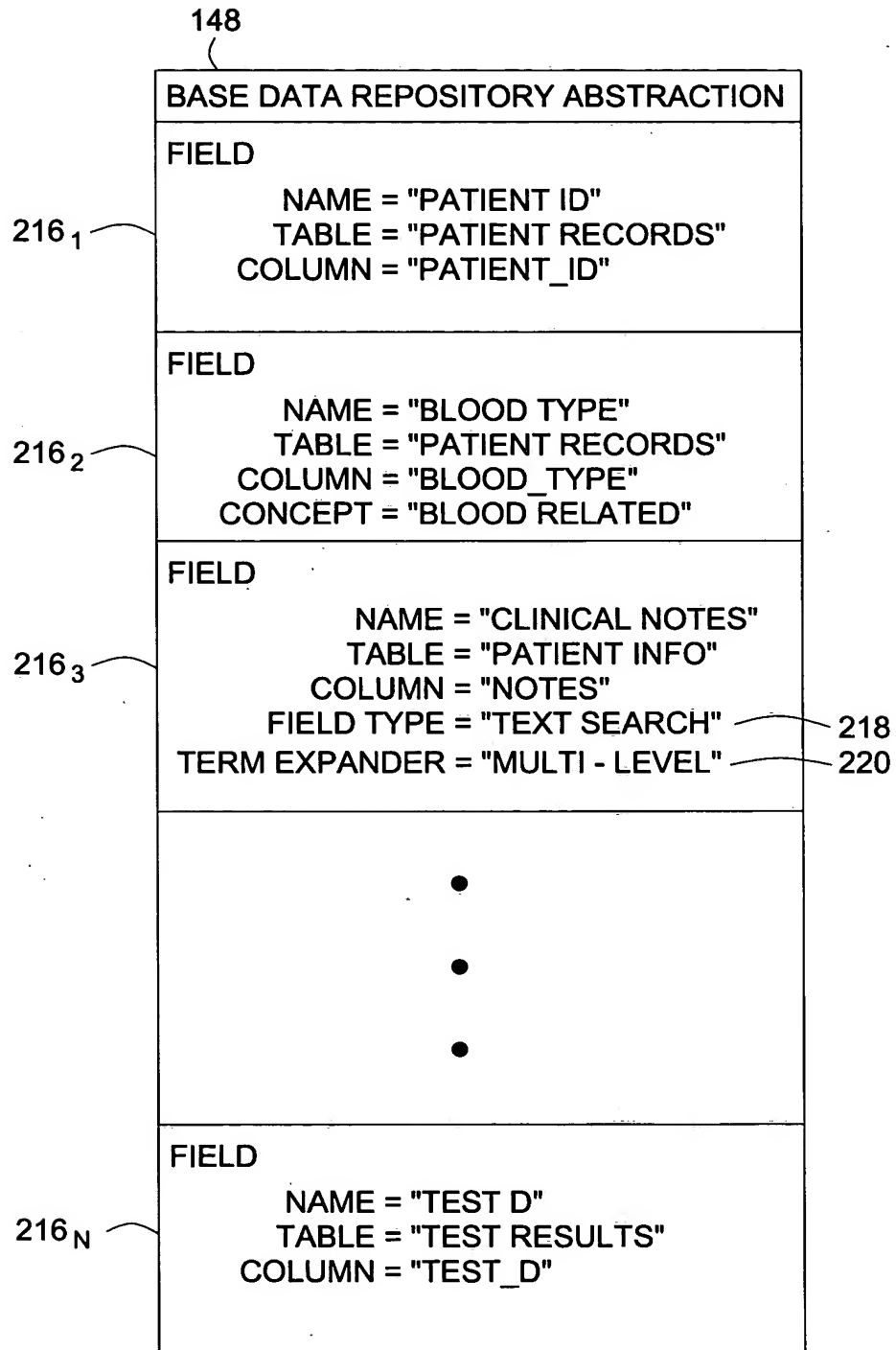


FIG. 2B

EXPANDED TERMS BASE TERM : CANCER
LOW EXPANSION LEVEL : <ul style="list-style-type: none">● TUMOR● CANCEROUS
HIGH EXPANSION LEVEL : <ul style="list-style-type: none">● TUMOR● MALIGNANT● CANCEROUS● GROWTH● MALIGNANCY

FIG. 2C

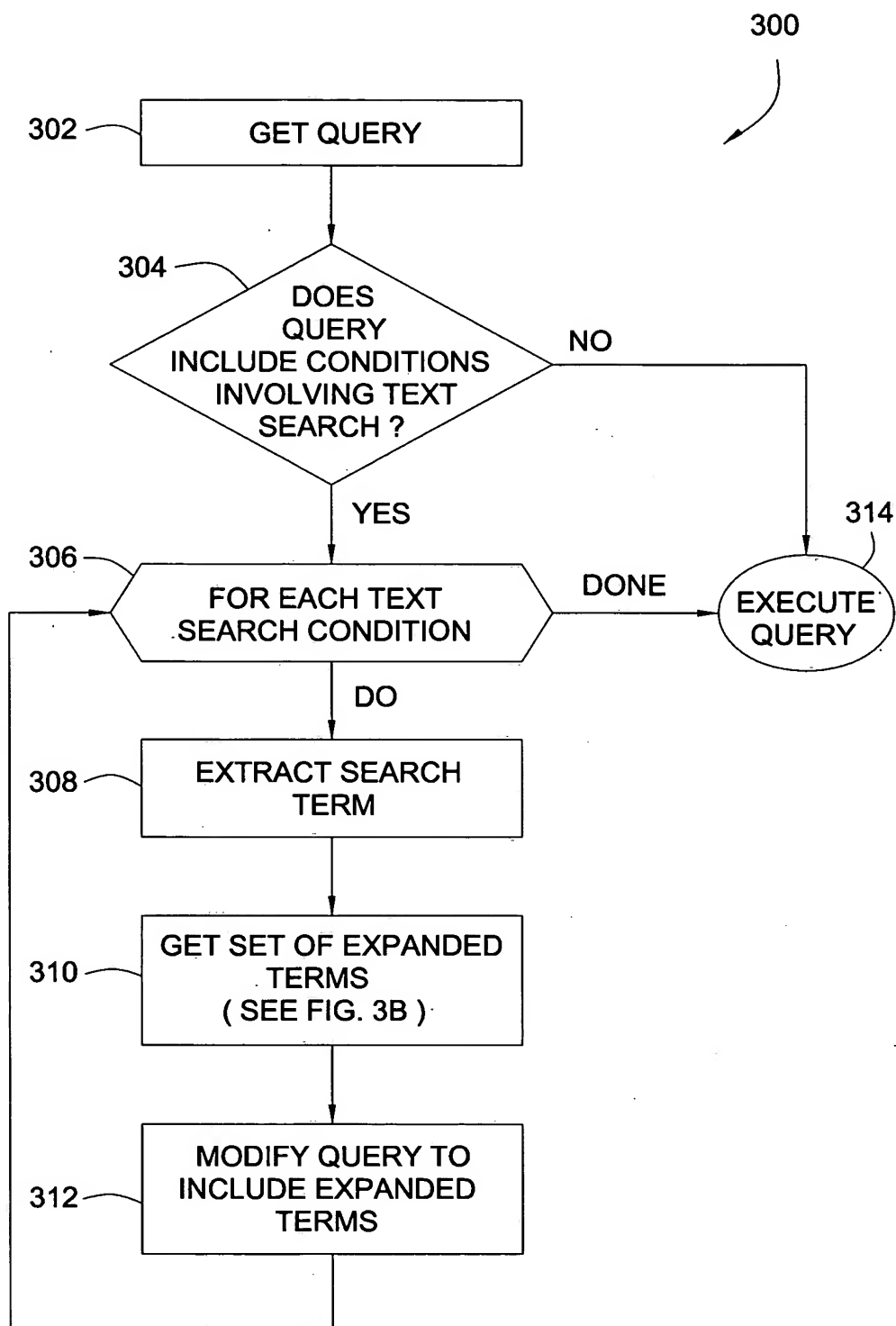


FIG. 3A

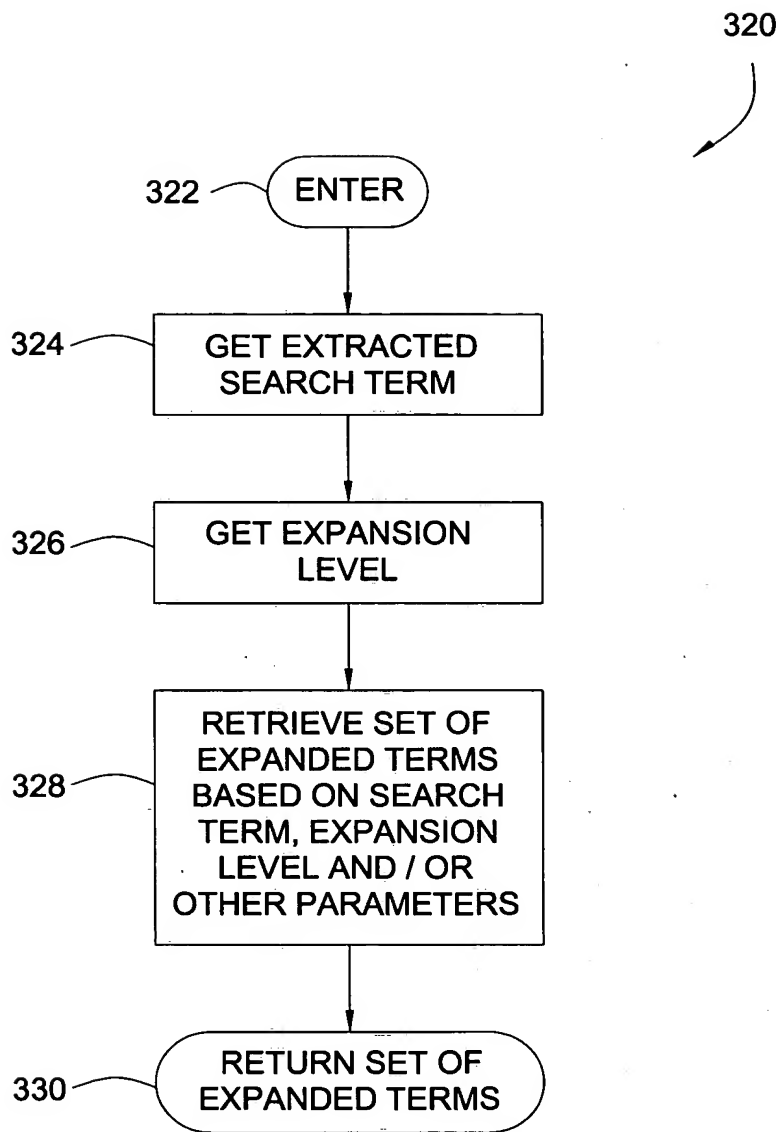


FIG. 3B

API FUNCTION	DESCRIPTION
GET EXPANSION LEVELS	GIVEN A SEARCH TERM, RETURNS THE LEVELS OF EXPANSION ALLOWED
GET EXPANDED TERMS	GIVEN A SEARCH TERM AND EXPANSION LEVEL, RETURNS A SET OF EXPANDED TERMS
BUILD EXPANDED TERMS	GIVEN A SEARCH TERM AND EXPANSION LEVEL, ADDS A LIST OF EXPANDED TERMS TO THE REPOSITORY
ADD EXPANDED TERMS	GIVEN A SEARCH TERM AND EXPANSION LEVEL, ALLOWS SPECIFIED TERMS TO BE ADDED TO AN EXISTING SET OF EXPANDED TERMS
DELETE TERM	GIVEN A SEARCH TERM AND EXPANSION LEVEL, ALLOWS SPECIFIED TERMS TO BE DELETED FROM AN EXISTING SET OF EXPANDED TERMS

FIG. 4

FIG. 5A

500

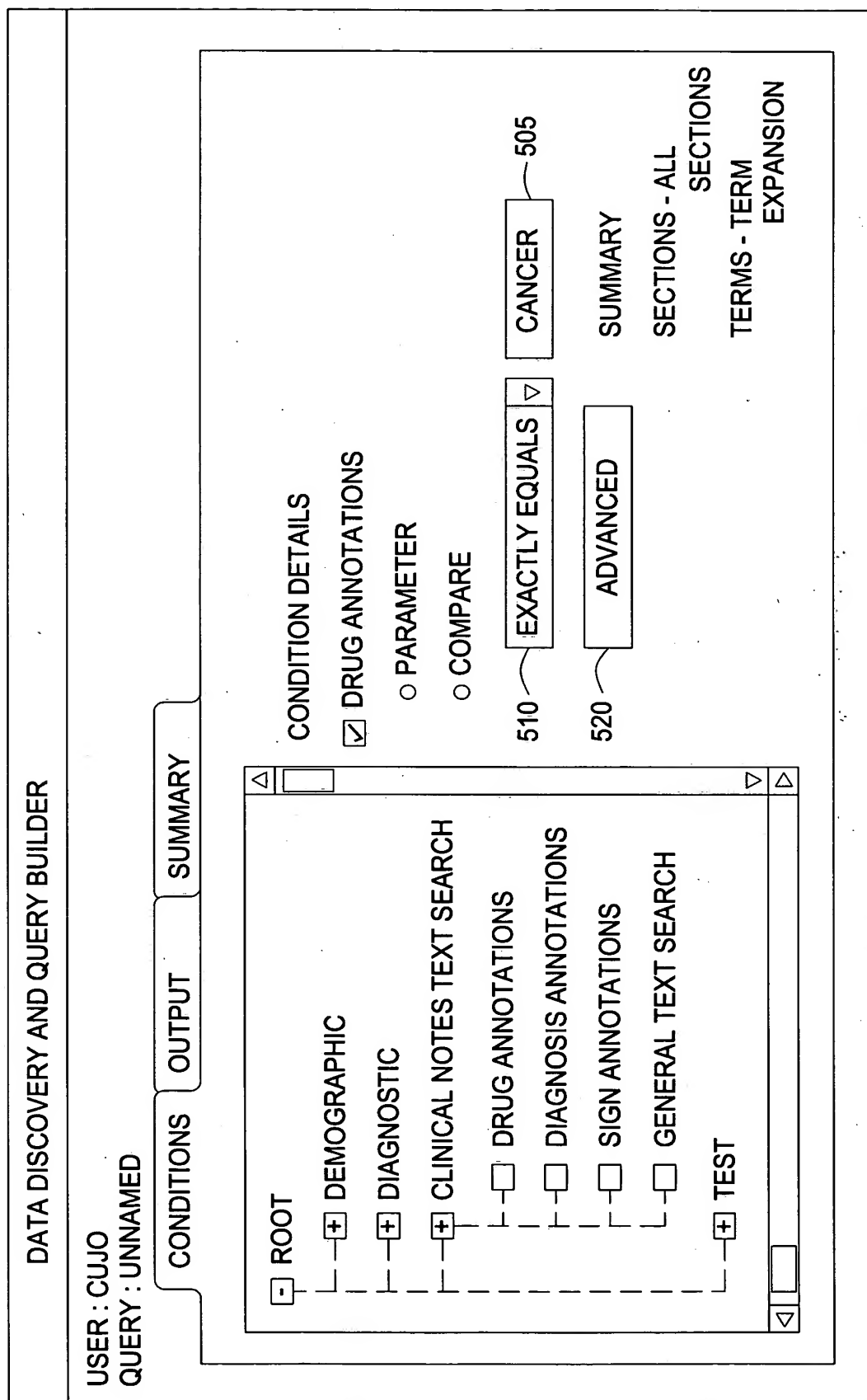


FIG. 5B

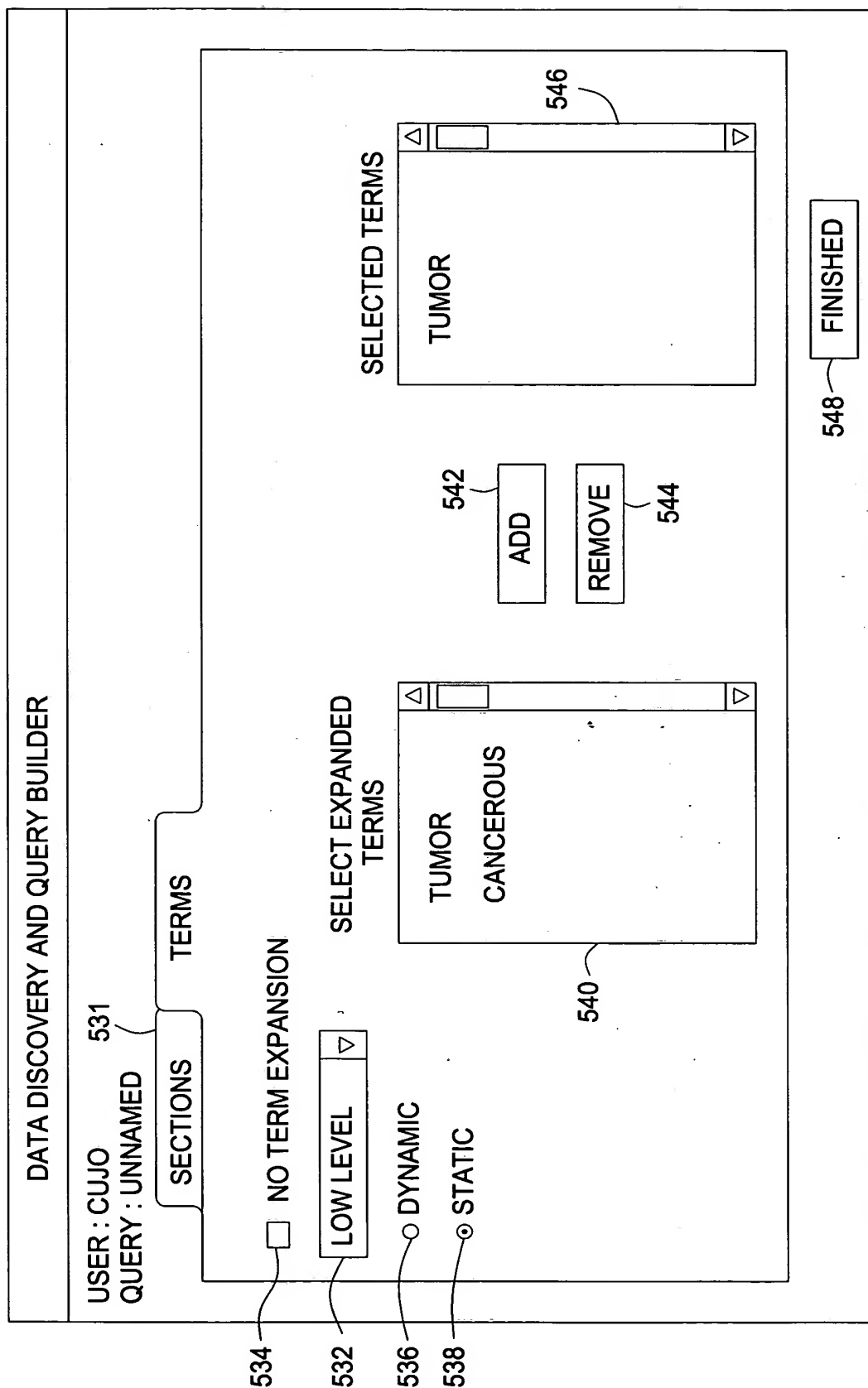


FIG. 5C

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550

DATA DISCOVERY AND QUERY BUILDER

USER : CUJO
QUERY : UNNAMED

SECTIONS

TERMS

☐ NO TERM EXPANSION

HIGH LEVEL ▾

☐ DYNAMIC
☒ STATIC

SELECT EXPANDED TERMS

554

TUMOR
MALIGNANT
CANCEROUS
GROWTH
MALIGNANCY

ADD

REMOVE

SELECTED TERMS

546

TUMOR
CANCEROUS
MALIGNANCY

FINISHED

552

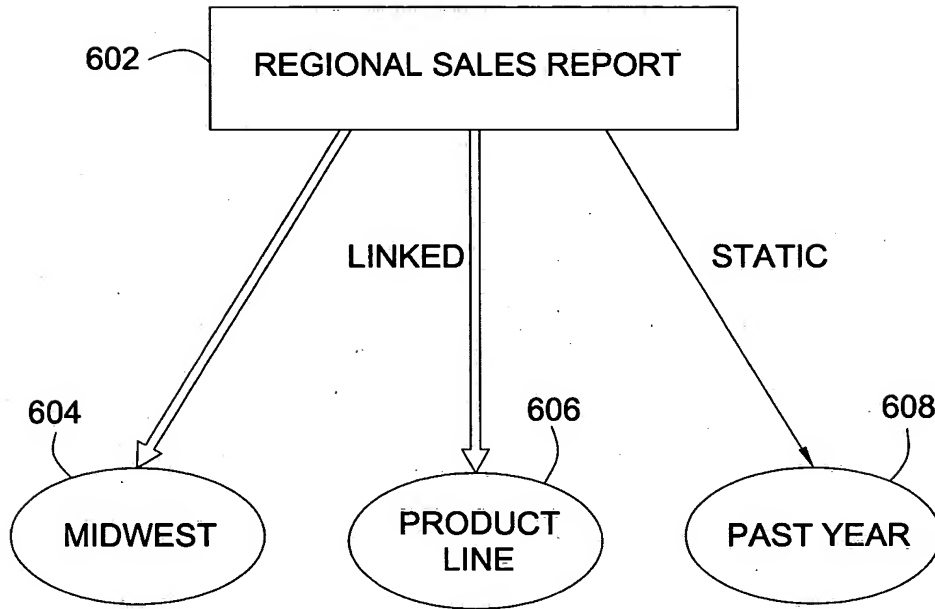


FIG. 6A

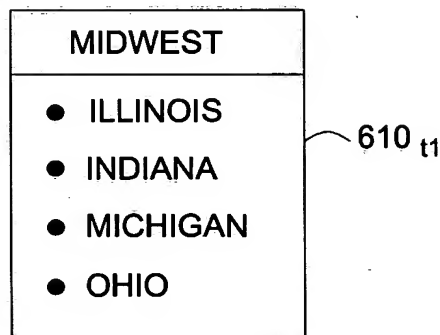


FIG. 6B

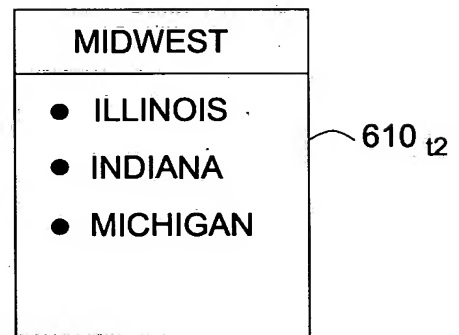


FIG. 6C